Compact, High-quality, Self-powered Loudspeakers for Portable Applications and Fixed Installations

Great-sounding Plug-and-Play System
Compact and Lightweight
High Power - SPL (peak) 126 to 131 dB
Rotateable HF Driver
Separate Amplifiers and Processing for each Driver
4 Presets (Standard, Near-field, Stage Monitor & 80 Hz Hi-Pass)
Robust Birch Plywood Construction
Matching Subwoofer with 4 LPF Presets

Corporate A/V	Theatres	Television Sound	Stage Monitor
Ballrooms	In-Fill	Broadcast Monitor	DJ Monitor
Congress Centres	Delay Effects	Audience Monitors	Nearfield Monitor
Trade Shows	Under-Balcony	Houses of Worship	Side-Fill
Clubs			Drum Monitors

SAFETY INSTRUCTIONS

CAUTION: To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.
WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.
SAFEGUARDS: Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. Improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards, observe the following instructions for its installation, use and servicing.
NOTES: This equipment has been tested and found to comply by Notified Body (DIRECTIVE 2004/108/EEC-EMC) pursuant to the product family standard for audio professional use:
EN 55103-1 and EN 55103-2 standard (with the limits for E1 and E2 electromagnetic environment); EN61000– 3 – 2 , EN 61000 – 3 - 3
This is a Class B product.
This equipment has been tested and found to comply by Notified Body (DIRECTIVE 2006/95/EEC L.V) pursuant to the audio apparatus safety requirements: Standard EN 60065.

WARNING NOTICES

LOCATION

Install the amplifier in a ventilated enclosure (IP20 at least), where it will not be directly exposed to high temperature or humidity.
Do not install the amplifier in a location that is exposed to direct rays of the sun, or near to hot appliances or radiators. Excessive heat can adversely affect the operation and internal components. Installation of the module in a damp or dusty environment may result in malfunction or accident.

PRECAUTIONS REGARDING INSTALLATION

Placing and using the amplifier for long periods on heat-generation sources will affect performances. Avoid placing the amplifier on heat-generating sources. Install this amplifier as far as possible from tuners and TV sets. An amplifier installed in close proximity to such equipment may cause noise or degradation of the picture

SAFETY RULES

- This device must be powered exclusively by earth connected mains sockets in electrical networks compliant to the IEC 364 or similar rules.
- Is absolutely necessary to verify this fundamental requirement of safety and, in case of doubt, require an accurate check by a qualified personal.
- The constructor cannot be considered responsible for eventual damages caused to persons, things or data for the missing of accurate earth link.
- Provide the installed unit with bipolar switch to unconnect both mains connection with at least 3mm of distance of the switch contacts.
- Before powering this device verify that the module is supplied with the correct voltage rating.
- Verify that your mains connection is capable to satisfy the power ratings of the device.
- Do not spill water or other liquids into or on the unit.
- Do not use this unit if the electrical power cord is frayed or broken.
- Do not remove the cover. Removing the cover will expose you to potentially dangerous voltage.
- No naked flame sources such like lighted candles should be placed on the module.
- Contact the authorized center for ordinary and extraordinary maintenance.
- Input mains and output power connection wirings must not to be accessible to the user.
- Use this device only within the operating temperature range indicated in this manual.
- A minimum clearance of 10 mm around the module is required for safety and ventilation reasons

ONLY FOR IS VERSION:

- The “IS” version of the device includes IEC mains connection as shown in the figure below:

The fuse included is of the type 3.15A 250V 5x20 FAST. For safety reasons, always replace this component with one of the same type. The replacement has to be made only by VIETA authorized personnel.

- The integration of the device in any system must allow an easy access to the mains connection and the switch.
- The switch is on OFF state when the “O” symbol is pressed down, while is in ON state when the “I” symbol is pressed down.

Latest Technology !

La Line high-quality, self-powered loudspeakers are designed for a wide range of portable and fixed sound reinforcement applications. Using the latest technologies, excellent sound, high power and controlled dispersion are combined in a compact package that's easy to carry and install.

La test Technology!

The **La Line** features the latest in amplifier and processor technology. The Class D amplifiers feature Fixed Frequency PWM-PPM modulation and are light, clean, power-efficient and matched to the drivers. Each driver in the **La-8** and **La-12** is powered by a separate amplifier and separately optimised using DSP. The result is a smooth sound, accurate in the lower mid frequencies and very low in distortion. Two amplifiers in bridge mode drive the **La-112S** subwoofer.

LED-indicated features include **READY** status, **SIGNAL** present, **TEMP**erature warning and **LIMIT**ing. The limiter is optimised for the system which also features sophisticated overload protection. The **INPUT** connection is by balanced +4dB XLR and an XLR **THROUGH** connector allows multiple systems to be efficiently daisy-chained.

PROTECTION CIRCUITS
There are three limiter stages; a clip limiter, responding to excess harmonic distortion, an average power limiter and an average high frequency limiter to protect the HF driver. Additionally, the **La Line** features average and peak current protection, whereby the amplifier stage is shut down should the specified thresholds be exceeded, and over-temperature protection with a warning phase before shut down. This comprehensive set of protection circuits allows the full potential of the system to be achieved with minimal risk of damage.

PROCESSOR PRESETS
The processor is used for the crossover, time alignment of components, equalisation and dynamic processing of the signal. There are 4 Presets accessed in sequence by a step-through switch.

On the full range cabinets these are:-

FRONT - FOH, no subwoofers: low and high frequency shelving equalisation provides a frequency response contour suitable for music applications.
NEARFIELD - this setting provides a natural, balanced frequency response when the unit is placed close to listeners in near field and delay applications.
MONITOR - this preset provides a nominally flat response for stage monitor and speech reinforcement.
X'OVER- adds a 80 Hz High Pass Filter to the system for use with a subwoofer.

On the subwoofer:-

A choice of Low Pass Filter values is offered - **90 Hz**, **100 Hz**, **110 Hz** and **120 Hz**. This allows system optimization with a wide variety of full range cabinets. **90Hz** is recommended for use with **La-12** and **100Hz** recommended for **La-8.**

AMP / PROCESSOR SPECIFICATIONS:

INPUT	
Sensitivity:	1 V_{RMS} / 2.22 dBU
Connections	Electronically balanced (pin 2+) 10K
Maximum Input Signal	4.5 V RMS
DSP	
Sampling:	24 bit AD/DA; 48 KHz simple rate.
Dynamic Range	100 dB
Presets	4 memories
Amplifier	
Power **La-8** & **La-12**	1 x 350 W (4 ohms) plus 1 x 180 W (8 ohms)
Power **La-112S**	1 X 500 W
Gain:	32 dB (40 times)
AC POWER	Min.100 V max. 250 V Frequency: min.40 Hz–max. 80 Hz

Built to La st!

The **La Line** components are mounted in a rigid, 15mm birch plywood cabinet coated with a durable paint finish. All drivers are high-quality, high-sensitivity and made in Europe. Each cabinet is fitted with a sturdy metal grille designed to cope with the rigours of the road - this is especially important for stage monitor applications. Handles are formed directly into the plywood and positioned at the top of the cabinet, rather than the side, to facilitate removal from flight cases.

Fixing points allow horizontal or vertical mounting using optional brackets and a 35mm polemount socket enables use with a variety of third party stands. The left hand side of the cabinet is angled at 42º - the optimum angle when used on its side as a stage monitor. Additionally the HF driver on the **La-8** and **La-12** can easily be rotated to give the same dispersion characteristic when the cabinet is mounted either horizontally or vertically. The **VIETA** logo can be rotated accordingly for cosmetic purposes and to indicate the rotation of the horn

Built to La st!

La-8

Acoustic Specifications

dB (SPL):
120 dB Continuous :126 dB Peak

Freq Response: 89 Hz-18 KHz (+/-3dB)
Useable Bandwidth: 55 Hz-20 KHz (-10dB)

Weight: 12 Kg

Size: (H X W X D): 418 X 267 X 270 mm

Dispersion (-6dB)
Horizontal 90º Vertical 60º (Standard)
or
Horizontal 60º Vertical 90º (Horn Rotated)

Components:
Mid/Bass 1 X 8" ; High 1 X 1"
Neodymium

Axial Sensitivity:
SPL 94 dB (-21 dBu 0,07 Vrms)

Voice Coil Diameter:
Mid/Bass 51 mm / 2"; High 44.4 mm / 1.75"

Applications

Stand-alone
Mobile and Installed AV systems
Presentations and Trade Shows
TV Audience monitors
Theatrical Sound reinforcement
-fill, delay and effects systems
Under-balcony coverage
Distributed systems in:-
Conference Centres
Houses of Worship
Concert Halls
Clubs
Stage Monitoring
Nearfield Monitors - broadcast and studio

With Subwoofer
Small to mid-size sound reinforcement
Side fills, Drum Monitors
DJ Monitors

La-12

Acoustic Specifications

dB (SPL):
125 dB Continuous :131 dB Peak

Freq Response: 89 Hz-18 KHz (+/-3dB)
Useable Bandwidth: 55 Hz-20 KHz (-10dB)

Weight: 18 Kg

Size: (H X W X D): 610 X 366.5 X 370 mm

Dispersion (-6dB)
Horizontal 80º Vertical 50º (Standard)
or
Horizontal 50º Vertical 80º (Horn Rotated)
Components:
Mid/Bass 1 X 12" ; High 1 X 1.4"

Axial Sensitivity:
SPL 97 dB (-21 dBu 0,07 Vrms)

Voice Coil Diameter:
Mid/Bass 75 mm / 3"; High 72.2 mm / 2.84"

Applications

As **La-8** but with higher power and greater bass response.

La-112S

Acoustic Specifications

dB (SPL):
125 dB Continuous :131 dB Peak

Freq Response: 39Hz-160KHz (+/-3dB)

Weight: 25Kg

Size: (H X W X D): 380 X 530X 390 mm

Components: 1 X 12"

Applications

For use with **La-8** and **La-12**

Can be used with other full-range systems using one of the four pre-set Low Pass Filter settings.

La test Technology!

Last Words.....

Why self-powered loudspeakers?

Speaker cable is the natural enemy of installers and hire companies alike. Long signal cable runs degrade the audio signal, unless high-quality, (and thus expensive), sectionally-wound 100V line transformers are employed. In mobile applications, as well as being inconvenient and bulky, speaker cables are unsightly and need careful positioning for health and safety reasons.

Self-powered loudspeakers eliminate the need for speaker cable and the accompanying amp racks, requiring only a local AC supply and the input signal, which, if professionally balanced, can be run long distances using relatively modest cable without loss of signal quality.

Incorporating DSP with the amplifier allows the package to be completely self-contained and the components to be accurately matched so the audio system becomes totally "plug-and-play" and consequently quick and easy to set-up or install.

In the past, the addition of the electronics was accompanied by an unacceptable increase in the weight of self-powered boxes but the latest generation amplifier/processors, as used in the **La Line**, solve this problem.

What do I look for when I buy self-powered speakers?

While the amplifier and processor must be of good quality, conventional questions like "how many watts?" are almost irrelevant when choosing a quality self-powered system like the **La Line**. Of course, there are many factors to consider but here is

Vieta Pro's "1-2-3 check-list"!

No1: Sound Quality

As with all high-end, professional audio systems, great sound quality is priority one. One of the problems with comparing unpowered speakers is that much of the outcome relies on matching the component parts. This can be a complex process, involving not only the amplifier and speakers but also processor settings and the nature of any wiring, especially when long runs of speaker cables are to be employed.
Auditioning competing self-powered systems couldn't be easier. Simply provide the same balanced audio signal to the boxes and listen.

No2: SPL

The power of an amplifier and power handling of a speaker, the "how many watts?" question, is relevant when matching individual system components. But the power of any "plug-and-play" system cannot be judged this way, as the acoustic power produced depends on many other things, particularly the sensitivity of the drive units. So, for complete systems, the sound pressure level - dB (SPL) - figure is the one to use when comparing acoustic power. The **La Line** employs very high-quality, high sensitivity drivers. These maximise the effectiveness of the on-board amplifiers to produce SPL values which equal or exceed other heavier and more expensive systems.

No3: Size and Weight

The smaller the system, the less likely it is to interfere with sightlines and the look of an event or installation. The lighter the boxes, the easier to transport and rig or install. Provided the sound quality is not affected, this is a definite case of "small is beautiful". La Line delivers no-compromise high-fidelity, high-power sound in a compact lightweight easy-to use package.

How do I best use the system with a subwoofer?

On **La-8** and **La-12**, preset 4 adds a 80 Hz high pass filter for use with a subwoofer. If one **La-112S** subwoofer is used per full-range cabinet, for example when a pole-mount is used, the XLR "through" cable can be used to send the unprocessed audio signal directly to the subwoofer, which has complementary, on-board, low pass filter choices. If there is more than one full-range cabinet per sub, best results are achieved with a dedicated, high-quality, mono-sum feed to the subwoofer.
For most environments, these factory recommendations will be the best options:-
With **La-8**, select the 100Hz pre-set (pre-set 2) on **La-112S**.
With **La-12**, select the 90Hz pre-set (pre-set 1) on **La-112S**.
However, depending on the location of the subwoofers and full-range cabinets in the acoustic space, there may be a better combination using the **La-112S** preset options at 110Hz and 120Hz. As always, use your ears!

"Can you Tell me something about the company?"

Vieta is based in Barcelona, Spain, the home of Gaudi and the style capital of Europe! Vieta has been making quality audio for over 50 years and introduced the Vieta Pro range in 2004. Since then, Vieta Pro, and parent company Seesound, have received many awards and nominations for quality and innovation.

Laline — Another great innovation from the makers of....

Doline — Deluxe, high-performance loudspeakers, in stylish ABS, for quality installations.

Reline — Over-quality, full-range loudspeakers for installations, theatres, clubs and touring.

Miline — High-fidelity in-ceiling and in-wall loudspeakers for quality installations.

Faline — Very High Power sound systems for touring, stadiums and theme parks.

Soline — Professional wireless loudspeakers for speech and background music

Tiline — Remote-controlled, DIN Rail audio suite for fixed installations

SeeSound Imagen y Sonido Profesional

VIETA

www.vietapro.com

La-8 Preset

FRONT

Applications: FOH (no subwoofers)

Where low and high frequency shelving equalization provide a frequency response contour suitable for music applications.

NEAR FIELD

Applications: Near field

This preset provides a natural balanced frequency response when a unit is placed close to listeners in near field or delay use.

MONITOR

Applications: Stage monitor, speech reinforcement.

This preset provide nominally flat response

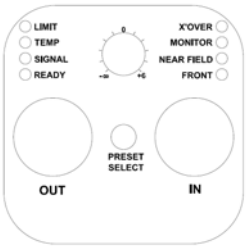
X'OVER

Applications: 3-way system operation with La-112 self-powered subwoofer.

This preset apply a 80 Hz highpass filter 24 dB LR

Note:

Select the desired preset and hold the preset selector button until the led display is blinking.



La-12 Preset

FRONT

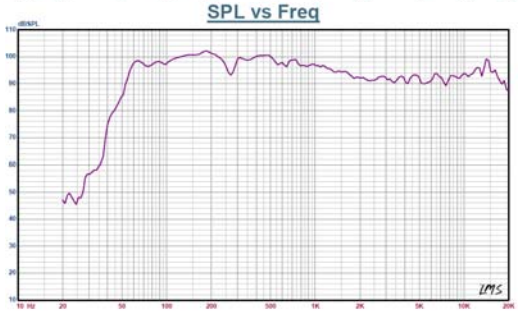
Applications: FOH (no subwoofers)

Where low and high frequency shelving equalization provide a frequency response contour suitable for music applications.

NEAR FIELD

Applications: Near field

This preset provides a natural balanced frequency response when a unit is placed close to listeners in near field or delay use.



MONITOR

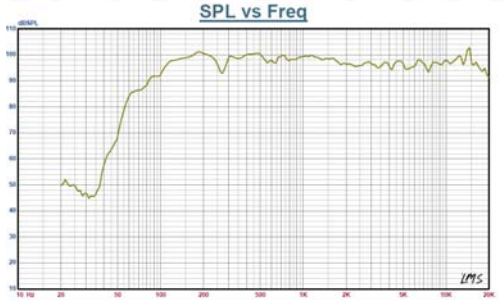
Applications: Stage monitor, speech reinforcement.

This preset provide nominally flat response

X'OVER

Applications: 3-way system operation with La-112 self-powered subwoofer.

This preset apply a 80 Hz highpass filter 24 dB LR



Note:

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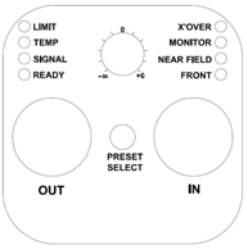


La-112 Preset

80 Hz.-

This preset apply a 40 Hz Highpass Filter 24 dB Butt and 80 Hz Lowpass filter 24 dB LR

90 Hz.-

This preset apply a 40 Hz Highpass Filter 24 dB Butt and 90 Hz Lowpass filter 24 dB LR

100 Hz.-

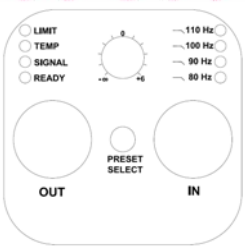
This preset apply a 40 Hz Highpass Filter 24 dB Butt and 100 Hz Lowpass filter 24 dB LR

110 Hz.-

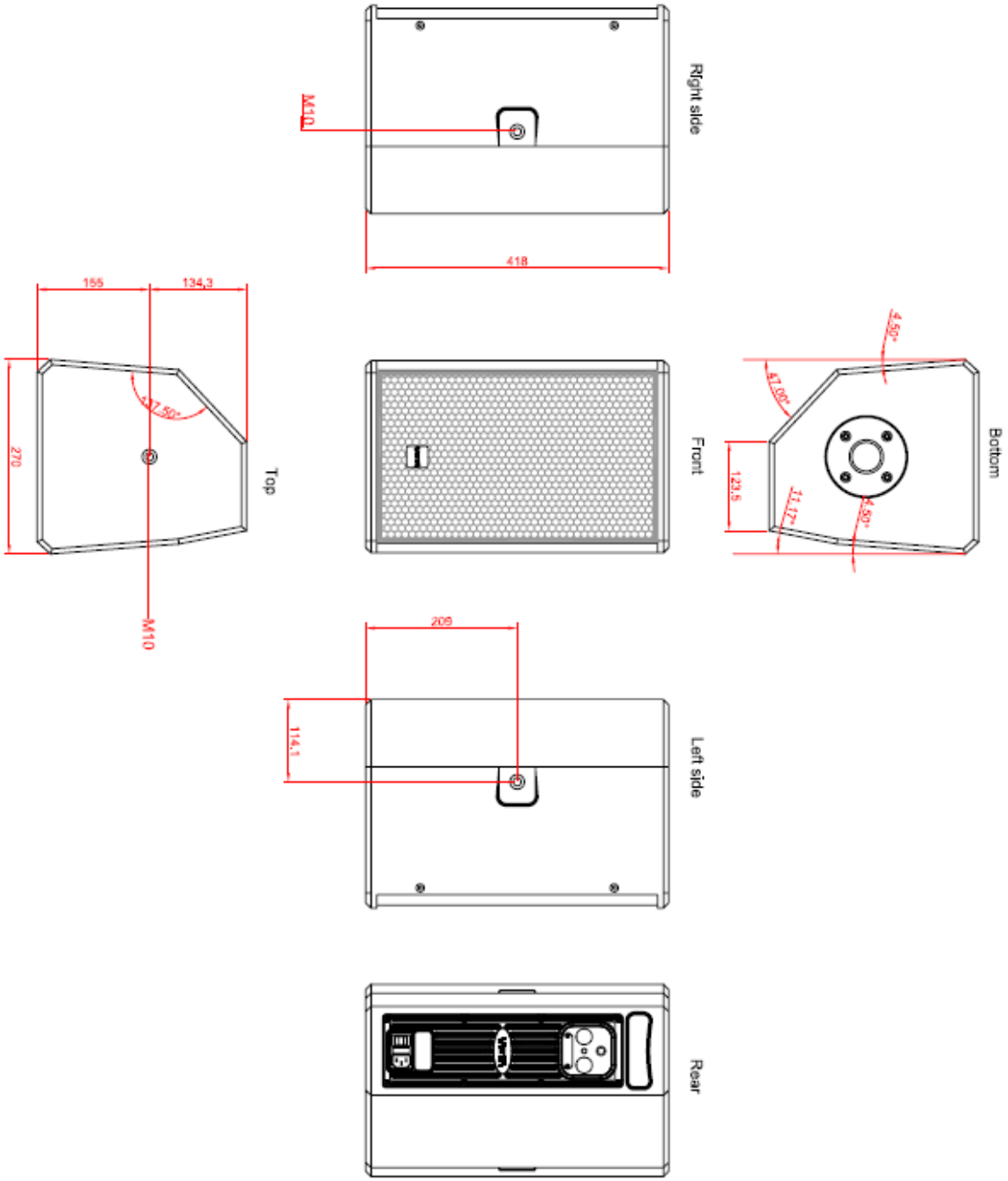
This preset apply a 40 Hz Highpass Filter 24 dB Butt and 110 Hz Lowpass filter 24 dB LR

Note:

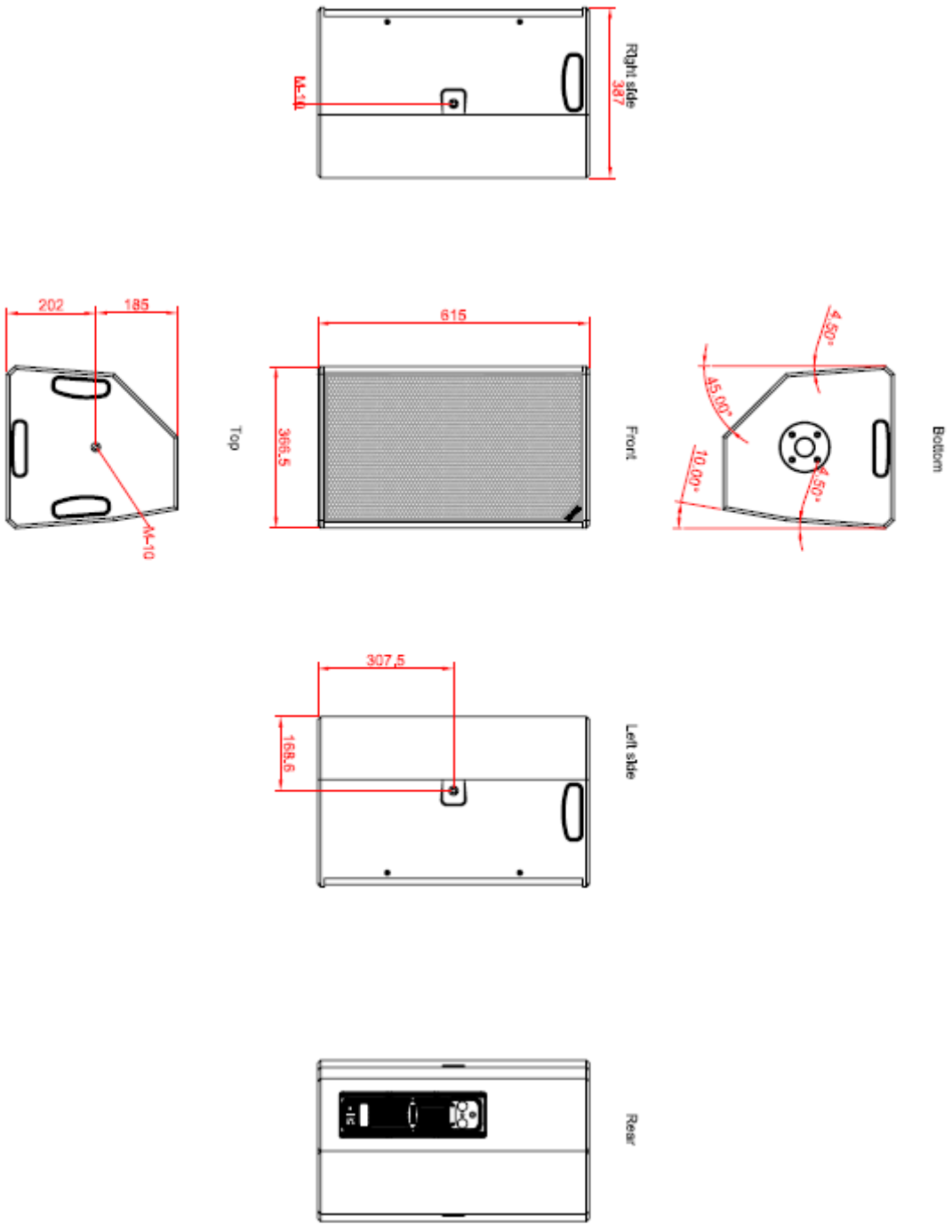
Select the desired preset and hold the preset selector button until the led display is blinking.



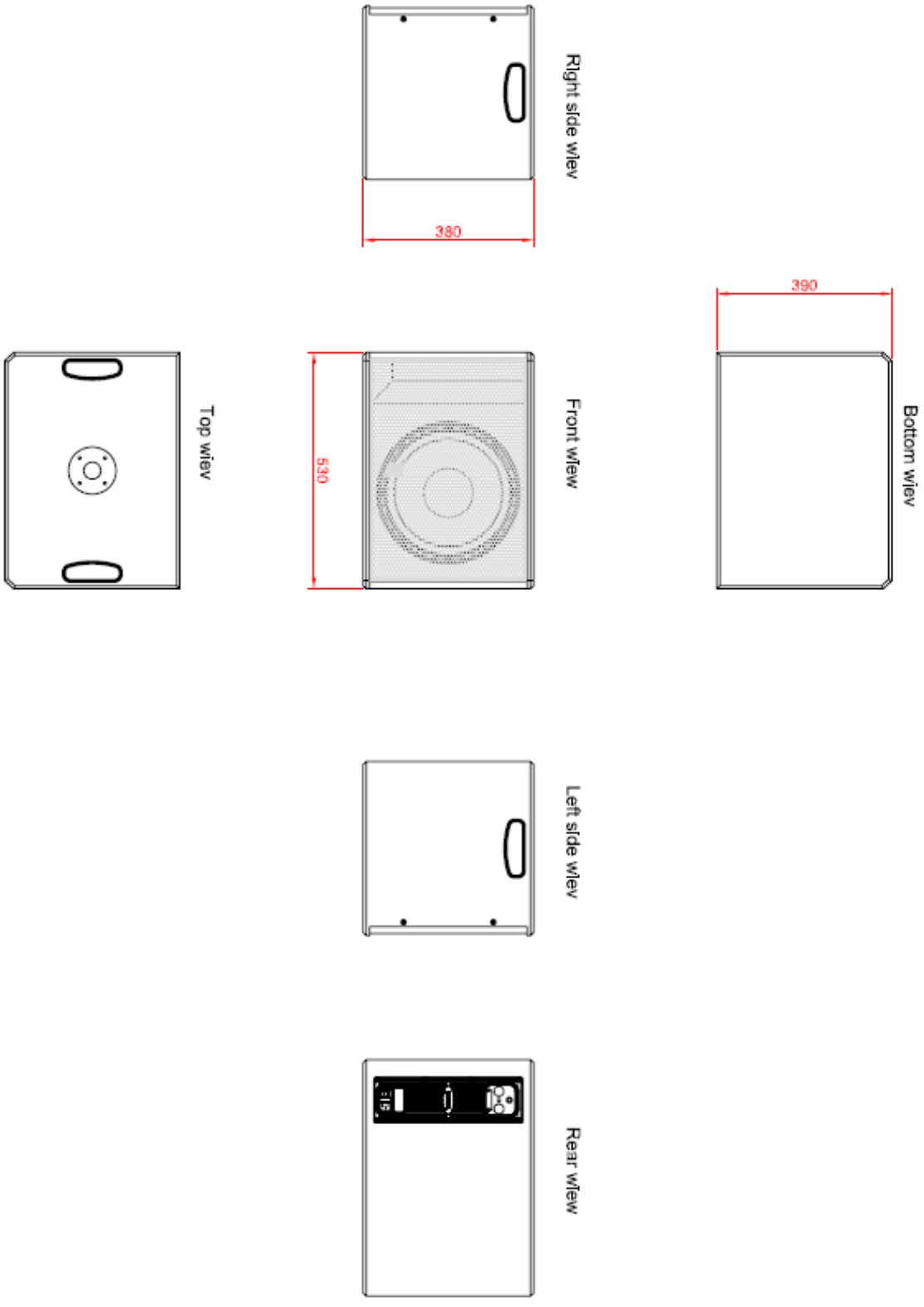
La-8 Line Drawing



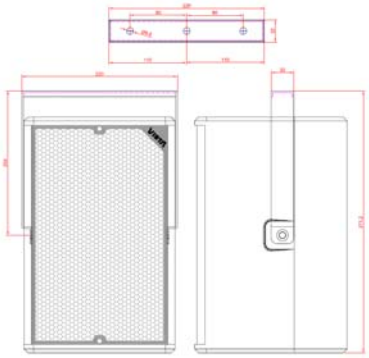
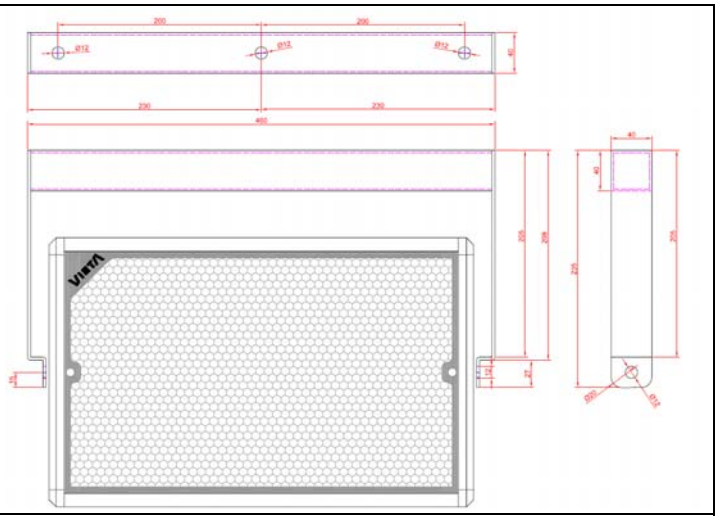
La-12 Line Drawing

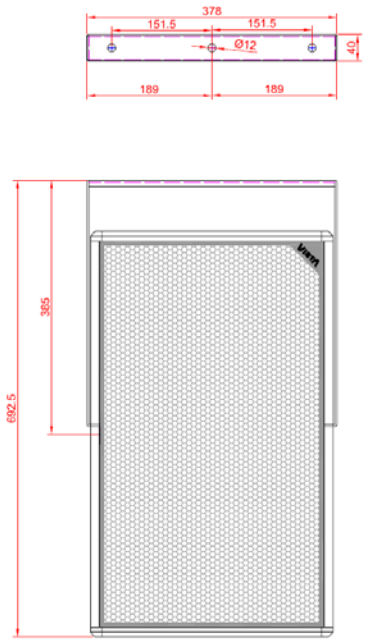
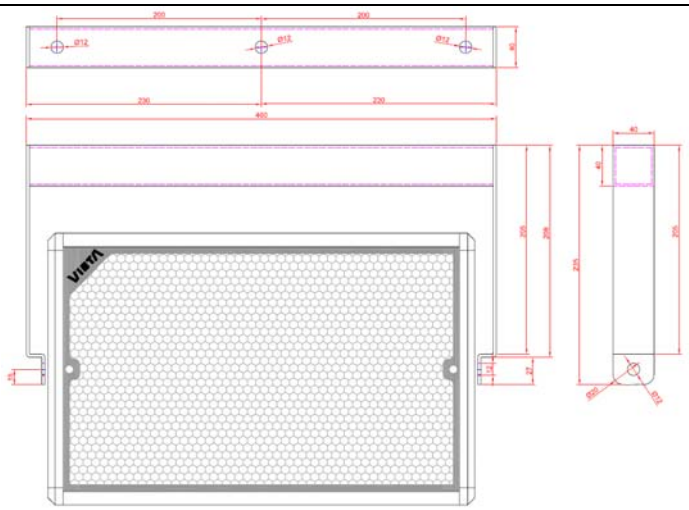


La-112 Line Drawing



Bracket for La series

	
La-8 Vertical	**La-8 Horizontal**

	
La-12 Vertical	**La-12 Horizontal**